Housing Mitigation Strategies

9)	Assist residents in the development of defensible space through the use of, for example, "tool libraries" for weed abatement tools, roadside collection and/or chipping services (for brush, weeds, and tree branches) in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.						✓	City of Lafayette	Will provide information on other resources at City Offices, newsletter, website
10)	Train homeowners to locate and shut off gas valves if they smell or hear gas leaking.						✓	City of Lafayette	Will provide information at City Offices, newsletter, website
11)	Distribute NOAA weather radios to high-risk, limited-income families living in flood hazard areas.						✓	City of Lafayette	No policy or program, but will support efforts of other agencies
12)	Develop a program to provide at-cost NOAA weather radios to residents of flood hazard areas.						✓	City of Lafayette	No policy or program, but will support efforts of other agencies
13)	Make use of the materials on the ABAG web site at http://quake.abag.ca.gov/fixit and other web sites to increase residential mitigation activities related to earthquakes. (ABAG plans to continue to improve the quality of those materials over time.)	✓						City of Lafayette	Through the LHMP process
14)	Develop a "Maintain-a-Drain" campaign, similar to that of the City of Oakland, encouraging businesses and residents to keep storm drains in their neighborhood free of debris.	✓						City of Lafayette	City's Creek Commission has community creek maintenance programs, information
15)	Encourage the formation of a community- and neighborhood-based approach to wildfire education and action through local Fire Safe Councils and the *Fire Wise Program*.						✓	City of Lafayette	No policy or program, but will support efforts of other agencies
16)	Inform shoreline-property owners of the possible long-term economic threat posed by rising sea levels.					✓			Not applicable to City's jurisdiction
17)	Develop and distribute culturally appropriate materials related to disaster mitigation and preparedness, such as those on the http://www.preparenow.org website.					✓			Not applicable to City's jurisdiction

Economy Mitigation Strategies

	Specific Mitigation Strategy	Priority (CHECK ONLY ONE)								Responsible Agency or Department (Required if Existing Program, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study) OR Other Comments
		Existing Program	Very High	High	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective		Not Yet Considered		
ECON - a - Multi-Hazard											
1)	Be aware of past problems of inadequate hazard disclosure and work with real estate agents to improve enforcement of real estate disclosure requirements for those hazards covered by this plan, for example, by making those agents and the disclosure firms aware of the hazard maps incorporated in this plan and available on the ABAG web site at ***http://quake.abag.ca.gov/mitigation***, as well as locally developed maps.	✓								City of Lafayette	City provides information in the Lafayette General Plan, including its mapping to all segments of the community. Information, including maps, are available on City's website. Link to ABAG is on City's website.
2)	Create incentives for owners of historic or architecturally significant residential buildings to undertake mitigation to levels that will minimize the likelihood that these buildings will need to be demolished after a disaster, particularly if those alterations conform to the federal Secretary of the Interior's *Guidelines for Rehabilitation.*						✓			City of Lafayette	No designated historic residential properties in Lafayette
ECON - b - Soft-Story Commercial Buildings Vulnerable to Earthquakes											
1)	Require engineered plan sets for voluntary or mandatory soft-story retrofits until a standard plan set and construction details become available.						✓			Contra Costa County	Not applicable to City's jurisdiction
2)	Adopt the 2003 International Existing Building Code, the 1997 UBC, or the latest applicable code standard for the design of voluntary or mandatory soft-story building retrofits.						✓			Contra Costa County	Not applicable to City's jurisdiction

Economy Mitigation Strategies

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Economy Mitigation Strategies

2)	Accelerate retrofitting of unreinforced masonry structures that have not been retrofitted, for example, by (a) actively working with owners to obtain structural analyses of their buildings, (b) helping owners obtain retrofit funding, (c) adopting a mandatory versus voluntary, retrofit program, and/or (d) applying penalties to owners who show inadequate efforts to upgrade these buildings.			✓		Contra Costa County	All 4 URM buildings have been mitigated pursuant to Contra Costa County program
3)	Require owners to inform all existing tenants that they work in this type of building and the standard to which it may have been retrofitted, as well as require owners to inform tenants that they will work in this type of building prior to signing a lease.			✓		Contra Costa County	All 4 URM buildings have been mitigated pursuant to Contra Costa County program
4)	Require owners to inform all existing tenants that they should be prepared to work elsewhere following an earthquake even if the building has been retrofitted, for it has probably been retrofitted to a life-safety standard, not to a standard that will allow occupancy following major earthquakes.			✓		Contra Costa County	Contra Costa County runs building safety programs
ECON - d - Privately-Owned Structurally Suspicious Buildings							
1)	Inventory non-ductile concrete, tilt-up concrete, and other privately-owned structurally suspicious buildings.			✓		Contra Costa County	Not applicable to City's jurisdiction
2)	Adopt the 2003 International Existing Building Code, the 1997 UBC, or the latest applicable code standard for the design of voluntary or mandatory retrofit of seismically vulnerable buildings.			✓		Contra Costa County	Not applicable to City's jurisdiction
3)	Adopt one or more of the following strategies as incentives to encourage retrofitting of privately-owned structurally suspicious commercial and industrial buildings: (a) waivers or reductions of permit fees, (b) below-market loans, (c) local tax breaks, (d) grants to cover the cost of retrofitting or of a structural analysis, (e) land use and procedural incentives, or (f) technical assistance.				✓	City of Lafayette	No policy or program at this time. Will consider as part of a update of General Plan.
ECON - e - Wildfire and Structural Fires							

Economy Mitigation Strategies

1)	Increase efforts to reduce fire in existing development through improving engineering design and vegetation management for mitigation, appropriate code enforcement, and public education on mitigation strategies.	✓				City of Lafayette	Lafayette General Plan Safety Elements Policies S-4.1, S-4.2; Lafayette Municipal Code Chapter 3-5, Fire Safety
2)	Require that new business and office buildings in high fire hazard areas be constructed of fire-resistant building materials and incorporate fire-resistant design features (such as minimal use of eaves, internal corners, and open first floors) to increase structural survivability and reduce ignitability.			✓		Contra Costa County	Not applicable to City's jurisdiction
3)	Adopt and amend as needed updated versions of the *California Building and Fire Codes* so that optimal fire-protection standards are used in construction and renovation projects.			✓		Contra Costa County	Not applicable to City's jurisdiction
4)	Create a mechanism to enforce provisions of the *California Building and Fire Codes* and other local codes that require the installation of smoke detectors and fire-extinguishing systems by making installation a condition of (a) finalizing a permit for any work on existing properties valued at over a fixed amount, such as $500 or $1000, and/or (b) on any building over 75 feet in height, and/or (b) as a condition for the transfer of property.			✓		Contra Costa County	Not applicable to City's jurisdiction
5)	Expand existing vegetation management programs in commercial and/or industrial areas.			✓		City of Lafayette	Not cost effective for small commercial area w/ minimal native and/or unirrigated landscaping.
6)	Establish a Fire Hazard Abatement District to fund reduction in fire risk of existing properties through vegetation management that includes reduction of fuel loads, use of defensible space, and fuel breaks.				✓	City of Lafayette	No policy or program at this time. Will consider as part of a General Plan update.
7)	Establish a Fire Hazard Abatement District to fund fire-safety inspections of private properties, roving firefighter patrols on high fire-hazard days, and public education efforts.			✓		Contra Costa Fire District	Not applicable to City's jurisdiction

Economy Mitigation Strategies

8)	Compile a list of high-rise and high-occupancy buildings that are deemed, due to their age or construction materials, to be particularly susceptible to fire hazards, and determine an expeditious timeline for the fire-safety inspection of all such structures.					✓		Contra Costa Fire District	Not applicable to City's jurisdiction
9)	Conduct periodic fire-safety inspections of all commercial and institutional buildings.					✓		Contra Costa Fire District	Not applicable to City's jurisdiction
10)	Work with the State Fire Marshall, the California Seismic Safety, PEER, and other experts to identify and manage gas-related fire risks of soft-story mixed use buildings that are prone to collapse and occupant entrapment consistent with the natural gas safety recommendations of Seismic Safety Commission Report SSC-02-03. **Note** - See http://www.seismic.ca.gov/pub/CSSC_2002-03_Natural%20Gas%20Safety.pdf. **Also note** - any values that are installed may need to have both excess flow and seismic triggers ("hybrid" valves).					✓		Contra Costa Fire District	Not applicable to City's jurisdiction
11)	Ensure that fire-preventive vegetation-management techniques and practices for creek sides and high-slope areas do not contribute to the landslide and erosion hazard.	✓						City of Lafayette	City's vegetation management and creek maintenance program
12)	Work with insurance companies to create a public/private partnership to give a discount on fire insurance premiums to "Forester Certified" *Fire Wise* landscaping and fire-resistant building materials.						✓	City of Lafayette	No policy or program at this time. Will consider as part of a General Plan update.
ECON - f - Flooding									
1)	To reduce flood risk, thereby reducing the cost of flood insurance to property owners, work to qualify for the highest-feasible rating under the Community Rating System of the National Flood Insurance Program.						✓	City of Lafayette	No policy or program at this time regarding highest-feasible rating, but City has program to participate in the Nat'l Flood Ins program -- General Plan Safety Element Program S-3.2.2.

Economy Mitigation Strategies

2)	Balance the needs for commercial and industrial development against the risk from potential flood-related hazards.	✓						✓	City of Lafayette	Lafayette General Plan Safety Element Policies S-3.1 through 3.5; Lafayette Municipal Code Chapter 6-18, Flood Damage Protection
3)	Ensure that new development pays its fair share of improvements to the storm drainage system necessary to accommodate increased flows from the development, ***or*** does not increase runoff by draining water to pervious areas or detention facilities.	✓						✓	City of Lafayette	Through development review process
4)	Provide sandbags and plastic sheeting to businesses in anticipation of rainstorms, and deliver those materials to the disabled and elderly upon request.	✓						✓	City of Lafayette	Public Works program
5)	Provide public information on locations for obtaining sandbags and deliver those sandbags to those various locations throughout a city and/or county.	✓						✓	City of Lafayette	Public Works program
6)	Apply floodplain management regulations for development in the floodplain and floodway.	✓						✓	City of Lafayette	Through development review process
7)	Encourage business owners to participate in building elevation programs.						✓		City of Lafayette	No policy or program at this time. Will consider as part of General Plan update.
8)	Encourage business owners to participate in acquisition and relocation programs for areas within floodways.						✓		City of Lafayette	No policy or program at this time. Will consider as part of General Plan update.
9)	Require an annual inspection of approved flood-proofed buildings to ensure that (a) all flood-proofing components will operate properly under flood conditions and (b) all responsible personnel are aware of their duties and responsibilities as described in their building's *Flood Emergency Operation Plan* and *Inspection & Maintenance Plan*.						✓		City of Lafayette	No policy or program at this time. Will consider as part of General Plan update.
ECON - g - Landslides and Erosion										

Economy Mitigation Strategies

1) Increase efforts to reduce landslides and erosion in existing and future development by improving appropriate code enforcement and use of applicable standards, such as those appearing in the *California Building Code*, California Geological Survey *Special Report 117 – Guidelines for Evaluating and Mitigating Seismic Hazards in California, American Society of Civil Engineers (ASCE) report Recommended Procedures for Implementation of DMG Special Publication 117: Guidelines for Analyzing and Mitigating Landslide Hazards in California, and the California Board for Geologists and Geophysicists Guidelines for Engineering Geologic Reports.* Such standards should cover excavation, fill placement, cut-fill transitions, slope stability, drainage and erosion control, slope setbacks, expansive soils, collapsible soils, environmental issues, geological and geotechnical investigations, grading plans and specifications, protection of adjacent properties, and review and permit issuance.	✓											City of Lafayette	Lafayette General Plan Safety Element Policies S-1.2 through 1.4; Lafayette Municipal Code Chapter 6-20, Hillside Development; through development review
2) Increase efforts to reduce landslides and erosion in existing and future development through continuing education of design professionals on mitigation strategies.	✓											City of Lafayette	Lafayette General Plan Safety Element Policies S-1.2 through 1.4; Lafayette Municipal Code Chapter 6-20, Hillside Development; through development review
ECON - h - Construction															
1) Continue to require that all new commercial and industrial buildings be constructed in compliance with structural requirements of the most recently adopted version of the *California Building Code*.	✓											Contra Costa County	Existing program
2) Conduct appropriate employee training and support continued education to ensure enforcement of construction standards.										✓		Contra Costa County	Not applicable to City's jurisdiction

Economy Mitigation Strategies

3)	Recognize that many strategies that increase earthquake resistance also decrease damage in an explosion. In addition, recognize that ventilation systems can be designed to contain airborne biological agents.				✓	Contra Costa County	Not applicable to City's jurisdiction
ECON - i - Building Reoccupancy							
1)	Institute an aggressive program similar to San Francisco's Building Occupancy Resumption Program (BORP). This program permits owners of private buildings to hire qualified structural engineers to create building-specific post-disaster inspection plans and allows these engineers to become automatically deputized as City/County inspectors for these buildings in the event of an earthquake or other disaster.				✓	Contra Costa County	Not applicable to City's jurisdiction
2)	Actively notify owners of historic or architecturally significant buildings of the availability of the local BORP-type program and encourage them to participate to ensure that appropriately qualified structural engineers are inspecting their buildings, thus reducing the likelihood that the buildings will be inappropriately evaluated following a disaster.				✓	City of Lafayette	No designated historic buildings in Lafayette
3)	Actively notify owners of educational facility buildings of the availability of the local BORP-type program and encourage them to participate to ensure that appropriately qualified structural engineers are inspecting their buildings, thus reducing the likelihood that the buildings will be inappropriately evaluated following a disaster.				✓	Contra Costa County	Not applicable to City's jurisdiction
4)	Allow owners to participate in a BORP-type program as described above, but not actively encourage them to do so.				✓	Contra Costa County	Not applicable to City's jurisdiction
5)	Develop and enforce an ordinance for disaster-damaged structures to ensure that damaged buildings are repaired in an appropriate and timely manner.				✓	Contra Costa County	Not applicable to City's jurisdiction

Economy Mitigation Strategies

6)	Establish preservation-sensitive measures for the repair and reoccupancy of historically significant structures, including requirements for temporary shoring or stabilization where needed, arrangements for consulting with preservationists, and expedited permit procedures for suitable repair or rebuilding of historically or architecturally valuable structures.					✓		Contra Costa County	Not applicable to City's jurisdiction
ECON - j - Public Education									
1)	Provide information to business owners and employees on the availability of interactive hazard maps on ABAG's web site.	✓					✓	City of Lafayette	City's website has link to ABAG.
2)	Develop printed materials, utilize existing materials (such as developed by FEMA and the American Red Cross), conduct workshops, and/or provide outreach encouraging businesses' employees to have family disaster plans that include drop-cover-hold earthquake drills, fire and storm evacuation procedures, and shelter-in-place emergency guidelines.	✓						City of Lafayette	City offices; City newsletter
3)	Develop printed materials, conduct workshops, and provide outreach to Bay Area businesses focusing on business continuity planning.						✓	City of Lafayette	No program at this time. Will consider information in City newsletter, website.
4)	Better inform Bay Area business owners of mitigation activities, including elevation of appliances above expected flood levels, use of fire-resistant roofing and defensible space in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat, structural retrofitting techniques for older buildings, and use of intelligent grading practices through workshops, publications, and media announcements and events.					✓		Contra Costa County	Not applicable to City's jurisdiction, but City supports County programs
5)	Sponsor the formation and training of Community Emergency Response Teams (CERT) training through partnerships with local businesses. [Note – these programs go by a variety of names in various cities and areas.]	✓						City of Lafayette	City has CERT program

Economy Mitigation Strategies

6)	Assist businesses in the development of defensible space through the use of, for example, "tool libraries" for weed abatement tools, roadside collection and/or chipping services (for brush, weeds, and tree branches) in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.						✓	City of Lafayette	Will provide information on other resources through City newsletter, website
7)	Make use of the materials developed by others (such as found on ABAG's web site at ***http://quake.abag.ca.gov/business***) to increase mitigation activities related to earthquakes. ABAG plans to continue to improve the quality of those materials over time.	✓						City of Lafayette	Through the LHMP process. City website has link to ABAG.
8)	Develop a "Maintain-a-Drain" campaign, similar to that of the City of Oakland, encouraging businesses and residents to keep storm drains in their neighborhood free of debris.	✓						City of Lafayette	City's Creek Commission has community creek maintenance programs, information
9)	Encourage the formation of a community-based approach to wildfire education and action through local Fire Safe Councils and the *Fire Wise Program* .						✓	City of Lafayette	No policy or program at this time. Will support programs of other agencies.
10)	Encourage businesses and laboratories handling hazardous materials or pathogens increase security to a level high enough to create a deterrent to crime and terrorism, including active implementation of "cradle-to-grave" tracking systems.					✓		Contra Costa County	Not applicable to City's jurisdiction
11)	Encourage joint meetings of security and operations personnel at major employers to develop innovative ways for these personnel to work together to increase safety and security.	✓						City of Lafayette	Police meet with banks, othe businesses, schools on regular basis
12)	Inform shoreline-property owners of the possible long-term economic threat posed by rising sea levels.					✓			Not applicable to City's jurisdiction
13)	Develop and distribute culturally appropriate materials related to disaster mitigation and preparedness, such as those on the http://www.preparenow.org website.					✓			Not applicable to City's jurisdiction

Government Mitigation Strategies

	Specific Mitigation Strategy	Priority (CHECK ONLY ONE)								Responsible Agency or Department (Required if Existing Program, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study) OR Other Comments
		Existing Program	Very High	High	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered			
GOVT - a - Focus on Critical Facilities											
1)	Assess the vulnerability of critical facilities (such as city halls, fire stations, community service centers, seaports, and airports) to damage in natural disasters and make recommendations for appropriate mitigation.				✓					City of Lafayette for City-owned bldgs	
2)	Retrofit or replace critical facilities that are shown to be vulnerable to damage in natural disasters.				✓					City of Lafayette for City-owned bldgs	
3)	Clarify to workers in critical facilities and emergency personnel, as well as to elected officials and the public, the extent to which the facilities are expected to perform only at a life safety level (allowing for the safe evacuation of personnel) or are expected to remain functional following an earthquake.				✓					City of Lafayette	
4)	Conduct comprehensive programs to identify and mitigate problems with facility contents, architectural components, and equipment that will prevent critical buildings from being functional after major natural disasters.				✓			✓		City of Lafayette	
5)	Encourage joint meetings of security and operations personnel at critical facilities to develop innovative ways for these personnel to work together to increase safety and security.	✓								City of Lafayette	Through City's emergency training program
6)	Install micro and/or surveillance cameras around critical public assets tied to web-based software, and develop a surveillance protocol to monitor these cameras.						✓			City of Lafayette	Not cost effective for few City-owned facilities

Government Mitigation Strategies

7)	Identify and undertake cost-effective retrofit measures on critical facilities (such as moving and redesigning air intake vents and installing blast-resistant features) when these buildings undergo major renovations.							✓	City of Lafayette	Will consider during future renovations of City facilities
8)	Coordinate with the State Division of Safety of Dams to ensure that cities and counties are aware of the timeline for the maintenance and inspection of dams whose failure would impact their jurisdiction.					✓			EBMUD	Not applicable to City's jurisdiction
9)	As a secondary focus, assess the vulnerability of non-critical facilities to damage in natural disasters based on occupancy and structural type, make recommendations on priorities for structural improvements or occupancy reductions, and identify potential funding mechanisms.					✓			Contra Costa County	Not applicable to City's jurisdiction
10)	Ensure that government-owned facilities are subject to the same or more stringent regulations as imposed on privately-owned development.	✓							City of Lafayette	Public buildings and facilties go through same development review process
11)	Comply with all applicable building and fire codes, as well as other regulations (such as state requirements for fault, landslide, and liquefaction investigations in particular mapped areas) when constructing or significantly remodeling government-owned facilities.	✓							City of Lafayette	Public buildings and facilties go through same development review process as private development
12)	Prior to acquisition of property to be used as a critical facility, conduct a study to ensure the absence of significant hazards.	✓							City of Lafaytte	City policy
GOVT - b - Maintain and Enhance Local Government's Emergency Response and Recovery Capacity										
1)	Establish a framework and process for pre-event planning for post-event recovery that specifies roles, priorities, and responsibilities of various departments within the local government organization, and that outlines a structure and process for policy-making involving elected officials and appointed advisory committees.	✓							City of Lafayette	Through City's ongoing emergency preparedness program

Government Mitigation Strategies

2)	Prepare a basic Recovery Plan that outlines the major issues and tasks that are likely to be the key elements of community recovery, as well as integrate this planning into response planning.	✓						City of Lafayette	Through City's ongoing emergency preparedness program
3)	Establish a goal for the resumption of local government services that may vary from function to function.	✓						City of Lafayette	Through City's ongoing emergency preparedness program
4)	Develop a plan for short-term and intermediate-term sheltering of impacted residents.	✓						City of Lafayette	Through City's ongoing emergency preparedness program
5)	Periodically assess the need for new or relocated fire or police stations and other emergency facilities, changes in staffing levels, and additional or updated supplies, equipment, technologies, and in-service training classes.	✓						City of Lafayette for Police, Contra Costa Fire District for fire stations	City has City Offices fund for moving all City and Police Services to new location
6)	Ensure that fire and police department personnel have adequate radios, breathing apparatuses, protective gear, and other equipment to respond to a major disaster.	✓						City of Lafayette	Through City's ongoing emergency preparedness program
7)	Develop and maintain a system of interoperable communications for first responders from cities, counties, special districts, state, and federal agencies.	✓						City of Lafayette	Through City's ongoing emergency preparedness program
8)	Harden emergency response communications, including, for example, building redundant capacity into public safety alerting and/or answering points, replacing or hardening microwave and simulcast systems, adding digital encryption for programmable radios, and ensuring a plug-and-play capability for amateur radio.				✓			Contra Costa County	City participates in County's OES program
9)	Purchase command vehicles for use as mobile command/EOC vehicles if current vehicles are unsuitable or inadequate.	✓						City of Lafayette	Through City's ongoing emergency preparedness program
10)	Maintain the local government's emergency operations center in a fully functional state of readiness.	✓						City of Lafayette	Through City's ongoing emergency preparedness

Government Mitigation Strategies

11)	Expand or participate in expanding traditional disaster exercises involving city and county emergency personnel to include airport and port personnel, transit and infrastructure providers, hospitals, schools, park districts, and major employers.	✓						City of Lafayette	Through City's ongoing emergency preparedness program
12)	Maintain and update as necessary the local government's Standardized Emergency Management System Plan.	✓						City of Lafayette	Through City's ongoing emergency preparedness program
13)	Continue to participate not only in general mutual-aid agreements, but also in agreements with adjoining jurisdictions for cooperative response to fires, floods, earthquakes, and other disasters.	✓						City of Lafayette	Through City's ongoing emergency preparedness program
14)	Install an alert and warning system with outdoor sirens, coordinating them, to the extent possible, with those of neighboring jurisdictions.				✓			Contra Costa County	City would not have its own system; should be part of countywide system.
15)	Conduct periodic tests of the alerting and warning system's outdoor sirens no less frequently than once per month.				✓			Contra Costa County	No system in Lafayette
16)	Regulate and enforce the location and design of street-address numbers on buildings and minimize the naming of short streets (that are actually driveways) to single homes.	✓						City of Lafayette	Through development review process
17)	Monitor weather during times of high fire risk using, for example, weather stations tied into police and fire dispatch centers.				✓			Contra Costa Fire District	Not applicable to City's jurisdication
18)	Establish regional protocols on how to respond to the NOAA Monterey weather forecasts, such as the identifying types of closures, limits on work that could cause ignitions, and prepositioning of suppression forces). A multi-agency coordination of response also helps provide unified messages to the public about how they should respond to these periods of increased fire danger.				✓			Contra Costa Fire District	Not applicable to City's jurisdiction
19)	Increase local patrolling during periods of high fire weather.				✓			Contra Costa Fire District	Not applicable to City's jurisdiction

Government Mitigation Strategies

20)	Create and maintain an automated system of rain and flood gauges that is web enabled and publicly accessible.						✓	City of Lafayette	No program at this time
21)	Place remote sensors in strategic locations for early warning of hazmat releases or use of weapons of mass destruction.					✓		Regional agencies	Not cost effective for community of Lafayette's size
22)	Investigate the use of phone-based warning systems for selected geographic areas.					✓		Contra Costa County	Not cost effective for community of Lafayette's size
23)	Review and update, as necessary, procedures pursuant to the *State Dam Safety Act* for the emergency evacuation of areas located below major water-storage facilities.	✓						City of Lafayette	Through City's ongoing emergency preparedness program
24)	Develop procedures for the emergency evacuation of areas identified on tsunami evacuation maps as these maps become available.					✓			Not applicable to City's jurisdiction
25)	Develop a business continuity plan that includes back-up storage of vital records, such as essential medical records and financial information.					✓			Not cost effective for community of Lafayette's size
GOVT - c - Participate in National, State, Multi-Jurisdictional and Professional Society Efforts to Identify and Mitigate Hazards									
1)	Promote information sharing among overlapping and neighboring local governments, including cities, counties, and special districts, as well as utilities.	✓						City of Lafayette	Through City's emergency preparedness program
2)	Recognize that emergency services is more than the coordination of police and fire response, for it also includes planning activities with providers of water, food, energy, transportation, financial, information, and public health services.	✓						City of Lafayette	Through City's emergency preparedness program
3)	Recognize that a multi-agency approach is needed to mitigate flooding by having flood control districts, cities, counties, and utilities meet at least annually to jointly discuss their a capital improvement programs for most effectively reducing the threat of storm-induced flooding.	✓						City of Lafayette	Through City's emergency preparedness program
4)	As new flood-control projects are completed, request that FEMA revise its flood-insurance rate maps and digital geographic information system data to reflect flood risks as accurately as possible.	✓						City of Lafayette	Through City's emergency preparedness program

Government Mitigation Strategies

5)	Participate in FEMA's National Flood Insurance Program.	✓							City of Lafayette	Through City's emergency preparedness program
6)	Participate in multi-agency efforts to mitigate fire threat, such as the Hills Emergency Forum (in the east Bay), various *FireSafe* Council programs, and city-utility task forces.					✓			Regional agencies	Not applicable to City's jurisdiction
7)	Work with major employers and agencies that handle hazardous materials to coordinate mitigation efforts for the possible release of these materials due to a natural disaster such as an earthquake, flood, fire, or landslide.					✓			Regional agencies	Not applicable to City's jurisdiction
8)	Encourage staff to participate in efforts by professional organizations to mitigate earthquake and landslide disaster losses, such as the efforts of the Northern California Chapter of the Earthquake Engineering Research Institute, the East Bay-Peninsula Chapter of the International Code Council, the Structural Engineers Association of Northern California, and the American Society of Grading Officials.	✓							City of Lafayette	Through City's emergency preparedness program and development review training
9)	Conduct and/or promote attendance at local or regional hazard conferences and workshops for elected officials to educate the officials on the critical need for programs in mitigating earthquake, wildfire, flood, and landslide hazards.	✓							City of Lafayette	Through City's emergency preparedness program and development review training
10)	Cooperate with researchers working on government-funded projects to refine information on hazards, for example, by expediting the permit and approval process for installation of seismic arrays, gravity survey instruments, borehole drilling, fault trenching, landslide mapping, flood modeling, and/or damage data collection.					✓				Not applicable to City's jurisdiction

Education Mitigation Strategies

	Specific Mitigation Strategy	Priority (CHECK ONLY ONE)								Responsible Agency or Department (Required if Existing Program, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study) OR Other Comments
		Existing Program	Very High	High	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered			
EDUC - a - Focus on Critical Facilities											
1)	Assess the vulnerability of critical education facilities to damage in natural disasters and make recommendations for appropriate mitigation.						✓			School districts	Not applicable to City's jurisdiction
2)	Retrofit or replace critical education facilities that are shown to be vulnerable to damage in natural disasters.						✓			School districts	Not applicable to City's jurisdiction
3)	Conduct comprehensive programs to identify and mitigate problems with facility contents, architectural components, and equipment that will prevent critical buildings from being functional after major disasters.						✓			School districts	Not applicable to City's jurisdiction
4)	As a secondary focus, assess the vulnerability of non-critical educational facilities to damage in natural disasters based on occupancy and structural type, make recommendations on priorities for structural improvements or occupancy reductions, and identify potential funding mechanisms.						✓			School districts	Not applicable to City's jurisdiction

Education Mitigation Strategies

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Education Mitigation Strategies

1)	Work on and/or support efforts by schools, local governments, and other agencies to utilize their unique ability to reach families through educational materials on hazards, mitigation, and preparedness, particularly after disasters and at the beginning of the school year. These efforts will not only make the entire community more disaster-resistant, but speed the return of schools from use as shelters to use as teaching facilities.		✓	School districts	Not applicable to City's jurisdiction, but City supports and encourages such programs
2)	Work on and/or support joint efforts of schools and fire jurisdictions to develop plans for evacuation or sheltering in place of school children during periods of high fire danger, thereby recognizing that overloading of streets near schools by parents attempting to pick up their children during these periods can restrict access by fire personnel and equipment.		✓	School districts, Contra Costa Fire District	Not applicable to City's jurisdiction
3)	Offer the 20-hour basic CERT training to teachers and after-school personnel.		✓	School districts	Not applicable to City's jurisdiction
4)	Offer the 20-hour basic CERT training to middle school and/or high school students as a part of the basic science or civics curriculum, as an after school club, or as a way to earn public service hours.		✓	School districts	Not applicable to City's jurisdiction
5)	Offer the 20-hour basic CERT training course through the Adult School system and/or through the Community College system.		✓	School districts	Not applicable to City's jurisdiction
6)	Develop and maintain the capacity for schools to take care of the students for the first 48 hours after a disaster, and notify parents that this capacity exists.		✓	School districts	Not applicable to City's jurisdiction
7)	Develop and distribute culturally appropriate materials related to disaster mitigation and preparedness, such as those on the http://www.preparenow.org website.		✓	School districts	Not applicable to City's jurisdiction

Environment Mitigation Strategies

	Specific Mitigation Strategy	Priority (CHECK ONLY ONE)								Responsible Agency or Department (Required if Existing Program, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study) OR Other Comments
		Existing Program	Very High	High	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered			
ENVI - a - Environmental Sustainability and Pollution Reduction											
1)	Continue to enforce State-mandated requirements, such as the *California Environmental Quality Act* , to ensure that mitigation activities for hazards, such as vegetation clearance programs for fire threat and seismic retrofits, are conducted in a way that reduces environmental degradation such as air quality impacts, noise during construction, and loss of sensitive habitats and species, while respecting the community value of historic preservation.	✓								City of Lafayette	Lafayette General Plan Open Space and Conservation Element; through development review process
2)	Encourage regulatory agencies to work collaboratively with safety professionals to develop creative mitigation strategies that effectively balance environmental and safety needs, particularly to meet critical wildfire, flood, and earthquake safety levels.	✓								City of Lafayette	Lafayette General Plan Open Space and Conservation Element; through development review process
3)	Continue to enforce and/or comply with State-mandated requirements, such as the *California Environmental Quality Act* and environmental regulations to ensure that urban development is conducted in a way to minimize air pollution. For example, air pollution levels can lead to global warming, and then to drought, increased vegetation susceptibility to disease (such as pine bark beetle infestations), and associated increased fire hazard.	✓								City of Lafayette	Lafayette General Plan Open Space and Conservation Element; through development review process
4)	Develop and implement a comprehensive program for watershed maintenance, optimizing forest health with water yield to balance water supply, flooding, fire, and erosion concerns.	✓								City of Lafayette	Lafayette General Plan Open Space and Conservation Element; through development review

Environment Mitigation Strategies

5)	Balance the need for the smooth flow of storm waters versus the need to maintain wildlife habitat by developing and implementing a comprehensive Streambed Vegetation Management Plan that ensures the efficacy of flood control efforts and maintains the viability of living rivers.	✓							City of Lafayette	Lafayette General Plan Open Space and Conservation Element; through development review process; Lafayette Municipal Code Chapter 5-4, Storm
6)	Stay informed of emerging scientific information on the subject of rising sea levels, especially on additional actions that local governments can take to mitigate this hazard.					✓				Not applicable to City's jurisdiction
7)	Monitor the science associated with global warming to be able to act promptly when data become available to warrant special design and engineering of government-owned facilities located in low-lying areas, such as wastewater treatment plants, ports, and airports.					✓				Not applicable to City's jurisdiction
8)	Comply with applicable performance standards of any *National Pollutant Discharge Elimination System* municipal stormwater permit that seeks to manage increases in stormwater run-off flows from new development and redevelopment construction projects.	✓							City of Lafayette	Lafayette Municipal Code Chapter 5-4, Stormwater Management
9)	Enforce and/or comply with the grading, erosion, and sedimentation requirements by prohibiting the discharge of concentrated stormwater flows by other than approved methods that seek to minimize associated pollution.	✓							City of Lafayette	Lafayette Municipal Code Chapter 5-3, Stormwater Management
10)	Explore ways to require that hazardous materials stored in the flood zone be elevated or otherwise protected from flood waters.					✓				Not applicable to City's jurisdiction
11)	Enforce and/or comply with the hazardous materials requirements of the State of California Certified Unified Program Agency (CUPA).					✓				Not applicable to City's jurisdiction
12)	Provide information on hazardous waste disposal and/or drop off locations.	✓							City of Lafayette	City offices; City's website

Environment Mitigation Strategies

13)	Develop and implement a program to control invasive and exotic species that contribute to fire and flooding hazards (such as eucalyptus, cattails, and cordgrass).	✓							City of Lafayette	Lafayette General Plan Open and Conservation Element Policies OS-4.1 through 4.5; Lafayette Municipal Code Chapter 6-17, Tree Protection
14)	Enforce provisions under creek protection, stormwater management, and discharge control ordinances designed to keep watercourses free of obstructions and to protect drainage facilities to confirm with the Regional Water Quality Control Board's Best Management Practices.	✓							City of Lafayette	Lafayette Municipal Code Chapters 5-4, Stormwater Management, 6-18, Flood Damage Protection
ENVI - b - Agricultural and Aquaculture Resilience										
1)	Maintain a variety of crops in rural areas of the region to increase agricultural diversity and crop resiliency.					✓				Not applicable to City's jurisdiction
2)	Promote and maintain the public-private partnerships dedicated to preventing the introduction of agricultural pests into regionally-significant crops, such as the glassy-winged sharpshooter into vineyards.					✓				Not applicable to City's jurisdiction
3)	Remove septic tanks and other sources of contamination adjacent to economically-significant aquacultural and agricultural resources.					✓				Not applicable to City's jurisdiction
4)	Encourage livestock operators to develop an early-warning system to detect animals with communicable diseases (due to natural causes or bioterrorism).					✓				Not applicable to City's jurisdiction

Land Use Mitigation Strategies

	Specific Mitigation Strategy	Priority (CHECK ONLY ONE)							Responsible Agency or Department (Required if Existing Program, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study) OR Other Comments
		Existing Program	Very High	High	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered		
LAND - a - Earthquake Hazard Studies for New Developments										
1)	Enforce and/or comply with the State-mandated requirement that site-specific geologic reports be prepared for development proposals within Alquist-Priolo Earthquake Fault Zones, and restrict the placement of structures for human occupancy. (This Act is intended to deal with the ***specific*** hazard of active faults that extend to the earth's surface, creating a surface rupture hazard.)						✓			No sprecial study zones in Lafayette
2)	Require preparation of site-specific geologic or geotechnical reports for development and redevelopment proposals in areas subject to earthquake-induced landslides or liquefaction as mandated by the State Seismic Hazard Mapping Act in selected portions of the Bay Area where these maps have been completed, and condition project approval on the incorporation of necessary mitigation measures related to site remediation, structure and foundation design, and/or avoidance.	✓							City of Lafayette	Through development review process
3)	Recognizing that some faults may be a hazard for surface rupture, even though they do not meet the strict criteria imposed by the Alquist-Priolo Earthquake Fault Zoning Act, identify and require geologic reports in areas adjacent to locally-significant faults.	✓							City of Lafayette	Through development review process
4)	Recognizing that the California Geological Survey has not completed earthquake-induced landslide and liquefaction mapping for much of the Bay Area, identify and require geologic reports in areas mapped by others as having significant liquefaction or landslide hazards.	✓							City of Lafayette	Through development review process

Land Use Mitigation Strategies

5)	Support and/or facilitate efforts by the California Geological Survey to complete the earthquake-induced landslide and liquefaction mapping for the Bay Area.		✓					City of Lafayette	City will support mapping efforts but does not have funding.
6)	Require that local government reviews of geologic and engineering studies are conducted by appropriately trained and credentialed personnel.	✓						City of Lafayette	Through development review process
LAND - b - Wildland and Structural Fires									
1)	Review development proposals to ensure that they incorporate required and appropriate fire-mitigation measures, including adequate provisions for occupant evacuation and access by emergency response	✓						City of Lafayette	Through development review process
2)	Develop a clear legislative and regulatory framework at both the state and local levels to manage the wildland-urban-interface consistent with *Fire Wise* and sustainable community principles.						✓	City of Lafayette	City will consider policies and programs as part of a Genera Plan update
LAND - c - Flooding									
1)	Establish and enforce requirements for new development so that site-specific designs and source-control techniques are used to manage peak stormwater runoff flows and impacts from increased runoff volumes.	✓						City of Lafayette	Through development review process
2)	Incorporate FEMA guidelines and suggested activities into local government plans and procedures for managing flood hazards.	✓						City of Lafayette	Through development review process
3)	Provide an institutional mechanism to ensure that development proposals adjacent to floodways and in floodplains are referred to flood control districts and wastewater agencies for review and comment (consistent with the NPDES program).	✓						City of Lafayette	Through development review process
4)	Establish and enforce regulations concerning new construction (and major improvements to existing structures) within flood zones in order to be in compliance with federal requirements and, thus, be a participant in the Community Rating System of the *National Flood Insurance Program* .	✓						City of Lafayette	Through development review process
LAND - d - Landslides and Erosion									

Land Use Mitigation Strategies

1) Establish and enforce provisions (under subdivision ordinances or other means) that geotechnical and soil-hazard investigations be conducted and filed to prevent grading from creating unstable slopes, and that any necessary corrective actions be taken prior to development approval.	✓													City of Lafayette	Through development review process
2) Require that local government reviews of these investigations are conducted by appropriately trained and credentialed personnel.	✓													City of Lafayette	Through development review process
3) Establish and enforce grading, erosion, and sedimentation ordinances by requiring, under certain conditions, grading permits and plans to control erosion and sedimentation prior to development approval.	✓													City of Lafayette	Through development review process
4) Establish and enforce provisions under the creek protection, storm water management, and discharge control ordinances designed to control erosion and sedimentation.	✓													City of Lafayette	Through development review process
5) Establish requirements in zoning ordinances to address hillside development constraints, especially in areas of existing landslides.	✓													City of Lafayette	Through development review process
LAND - e - Hillside - Multi-Hazard															
1) Establish a buffer zone between residential properties and landslide or wildfire hazard areas.	✓													City of Lafayette	City's General Plan policies and zoning setback regulations provide buffer areas between residential properties and sensitive areas
2) Discourage, add additional mitigation strategies, or prevent construction on slopes greater than a set percentage, such as 15%, due to landslide or wildfire hazard concerns.	✓													City of Lafayette	Lafayette General Plan Safety Element Policies S-1.1, S-1.2, S-4.1, S-4.2, Lafayette Municipal Code Chapter 6-20, Hillside Development
LAND - f - Smart Growth to Revitalize Urban Areas and Promote Sustainability															

Land Use Mitigation Strategies

1)	Prioritize retrofit of infrastructure that serves urban areas over constructing new infrastructure to serve outlying areas.					✓						Lafayette is virtually built out with remaining development sites considered infill
2)	Work to retrofit homes in older areas to provide safe housing close to job centers.	✓									City of Lafayette	Through development review process
3)	Work to retrofit older downtown areas to protect architectural diversity and promote disaster-resistance.	✓									City of Lafayette	Through development review process
4)	Protect as open space areas susceptible to extreme hazards.	✓									City of Lafayette	Through development review process
5)	Provide new buffers and preserve existing buffers between development and existing users of large amounts of hazardous materials, such as major					✓						Not applicable to City's jurisdiction